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| APPLICATION NO.   | FILING DATE          | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|----------------------|----------------------|---------------------|------------------|
| 10/541,071  | 04/05/2006           | Daniele Faccio       | 05788.0373          | 6114             |
|   | 7590 01/26/2007      | EXAMINER             |                     |                  |
| FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER<br>LLP<br>901 NEW YORK AVENUE, NW<br>WASHINGTON, DC 20001-4413 |                      |                      | KIM, ELLEN E        |                  |
|   |                      |                      | ART UNIT            | PAPER NUMBER     |
| WASHINGTO   | 14, DC 20001-1113    | 2874                 |                     |                  |
|   |                      |                      |                     |                  |
| SHORTENED STATUTOR  | Y PERIOD OF RESPONSE | MAIL DATE            | DELIVERY MODE       |                  |
| 3 MO  | NTHS                 | 01/26/2007           | PAPER               |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

|  |   | Application No.   | Applicant(s)   |               |  |  |  |
|--|---|---|--|---------------|--|--|--|
|  |   | 10/541,071  | FACCIO ET AL.  | FACCIO ET AL. |  |  |  |
|  | Office Action Summary   | Examiner  | Art Unit   | ,             |  |  |  |
| ***  |   | Ellen Kim   | 2874   |               |  |  |  |
| Period for   | The MAILING DATE of this communication a<br>Reply   | opears on the cover sheet w   | ith the correspondence ac  | dress         |  |  |  |
| • WHICH - Extension after State - If NO per - Failure Any rep                              | RTENED STATUTORY PERIOD FOR REP EVER IS LONGER, FROM THE MAILING ons of time may be available under the provisions of 37 CFR 10 (6) MONTHS from the mailing date of this communication. wind for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statuty received by the Office later than three months after the mail patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNION (136(a). In no event, however, may a red will apply and will expire SIX (6) MON te, cause the application to become AE | CATION. reply be timely filed ITHS from the mailing date of this c BANDONED (35 U.S.C. § 133). |               |  |  |  |
| Status   |   |   |  |               |  |  |  |
| 1) 🗌 . R   | esponsive to communication(s) filed on  |   |  |               |  |  |  |
| · —  |   | is action is non-final.   |  |               |  |  |  |
| • _  | ince this application is in condition for allow   |   | ters, prosecution as to the  | e merits is   |  |  |  |
| C  | osed in accordance with the practice under  | Ex parte Quayle, 1935 C.D   | ). 11, 453 O.G. 213.   |               |  |  |  |
| Dispositio   | n of Claims   |   |  |               |  |  |  |
| 4) 🖂 C   | laim(s) <u>11-20</u> is/are pending in the applicati  | on.   |  | •             |  |  |  |
|  | i) Of the above claim(s) is/are withdr  |   |  |               |  |  |  |
|  | laim(s) is/are allowed.   |   |  |               |  |  |  |
| · ·  | laim(s) 11-20 is/are rejected.  |   |  |               |  |  |  |
|  | laim(s) is/are objected to.   |   |  |               |  |  |  |
| 8)□ C  | laim(s) are subject to restriction and  | or election requirement.  |  |               |  |  |  |
| Applicatio <b>i</b>  | n Papers  |   |  |               |  |  |  |
| 9)□ Th   | e specification is objected to by the Examir  | ner   |  |               |  |  |  |
| · —  | ☐ The specification is objected to by the Examiner. ☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  |   |  |               |  |  |  |
|  | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |   |  |               |  |  |  |
|  | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |   |  |               |  |  |  |
| 11)[ Th  | 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |   |  |               |  |  |  |
| Priority un  | der 35 U.S.C. § 119   |   |  |               |  |  |  |
| 12)□ A(  | knowledgment is made of a claim for foreig  | ın priority under 35 U.S.C. 8   | \$ 119(a)-(d) or (f)   |               |  |  |  |
|  | All b) Some * c) None of:   | in phoney under do o.o.o. 3   | · · · · · · · · · · · · · · · · · · ·  |               |  |  |  |
| •  | ☐ Certified copies of the priority docume   | nts have been received.   |  |               |  |  |  |
| <b>-</b>   | ☐ Certified copies of the priority documer  |   | oplication No  |               |  |  |  |
| 3.   | ☐ Copies of the certified copies of the pri   |   |  | Stage         |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).                              |   |   |  |               |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received. |   |   |  |               |  |  |  |
|  |   |   |  |               |  |  |  |
|  |   |   |  |               |  |  |  |
| Attachment(s   |   |   |  |               |  |  |  |
|  | f References Cited (PTO-892)  |   | Summary (PTO-413)  |               |  |  |  |
|  | f Draftsperson's Patent Drawing Review (PTO-948)<br>ion Disclosure Statement(s) (PTO/SB/08)   |   | s)/Mail Date<br>nformal Patent Application   |               |  |  |  |
|  | o(s)/Mail Date <u>4/06, 6/05, 11/06</u> .   | 6) Other:   |  |               |  |  |  |

Application/Control Number: 10/541,071

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#### **DETAILED ACTION**

#### Claim Objections

Claims 13-18 are objected to because of the following informalities: note that "N" is not defined in the claim. Appropriate correction is required.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 11, 12, 19, and 20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Fincato et al [Applicant's submitted prior art, USPAT 6,285,810].

Fincato et al an integrated optical add/drop device [fig. 5] and the method having switching function for use in wavelength division multiplexing optical communication systems, comprising first and second interferometric arms of an interferometer comprising:

an optical filter having first and second input ports and first and second output ports, said first input port being connected to a first portion of said first interferometric arm, said second input port being connected to a first portion of said second interferometric arm, said first output port being connected to a second portion of said first interferometric arm, said second output port being connected to a second portion of said second interferometric arm, said optical filter acting as a selective switch exchanger for exchanging between one interferometric arm and the other at least one of a plurality of optical signals S(~kl), S(A2) ...., S(An), received at its input ports and for transmitting the remaining optical signals through its output ports in said first and second interferometric arms; and

at least first and second optical shifters located on opposite sides of said optical filter [fig. 5 and 10, note that some of SF are located in the upper side, and some of heaters are located in the down side, and in column 8, lines 22-32, there is teaching that heaters can be utilized for shifter].

In re claim 12, in abstract that said optical filter is a tunable optical filter.

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fincato et al.

It is not clear what is "N" in the claim 13, therefore, this is rejected under 103 over Fincato et al reference.

#### Conclusion

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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For all official patent application related correspondence for organizations reporting to the Commissioner of Patents:

- Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349.

The examiner can normally be reached on Monday through Thursday.

Ellen E. Kim

Primary Examiner

January 22, 2007/EK